MOXA SoftDVR™ Pro IP Surveillance Software Quick Installation Guide

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www.moxa.com/product

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NOTE: This User's Guide describes basic installation and operation procedures for SoftDVR™ IP Surveillance Software. Refer to the SoftDVR™ Pro/Lite IP Surveillance Software User's Manual, which can be downloaded from Moxa's website, for more details about using this software.

MOXA SoftDVR™ Pro IP Surveillance Software Quick Installation Guide

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Product Information

Overview

MOXA SoftDVR™ IP Surveillance Software is designed for IP Surveillance systems that use MOXA VPort 2100 Series and VPort 2310 Video Servers as a Distributed Video Networking solution. System integrators can use MOXA SoftDVR™ to integrate other applications, such as I/O sensors and alarms, with CCTV systems over an IP-based network.

The MOXA SoftDVR™ IP Surveillance Software comes in two versions:

SoftDVR™ Lite (Single-PC version)

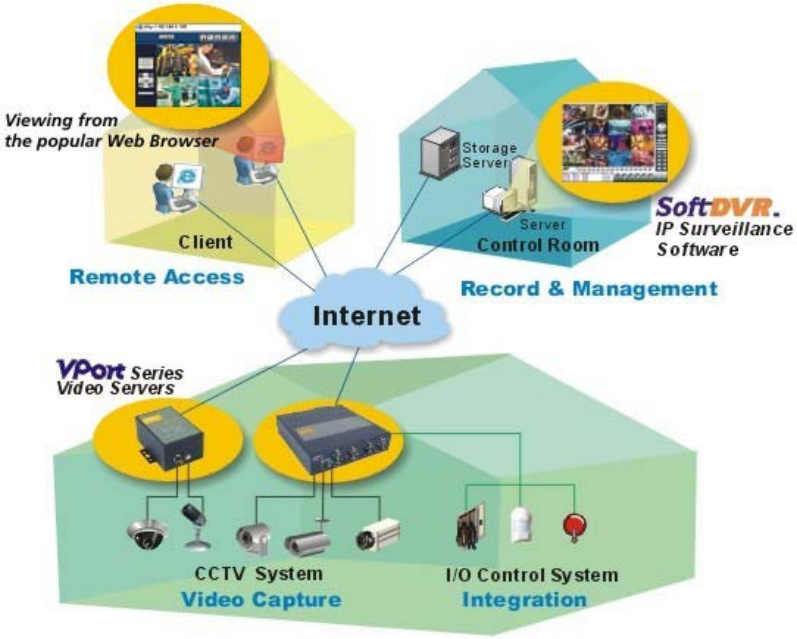
- IP Surveillance Software for up to 4 channels (quad), with video viewing, recording, camera control, video motion detection, scheduling, and user authorization management.
- SoftDVR Lite is bundled free with VPort Series Video Servers, and can be downloaded from Moxa's website at http://web4.moxa.com/support/download_center.asp

SoftDVR™ Pro (Network version)

- IP Surveillance Software for up to 16 channels, with complete video management, alarm message management, and system administration.
- SoftDVR Pro is sold separately—includes the SoftDVR™ Pro software and a detailed User's Manual.
  (To purchase the MOXA SoftDVR™ Pro IP Surveillance Software, contact your Moxa sales representative for details.)

NOTE: *This User's Guide is mainly for SoftDVR™ Pro. For more information about SoftDVR™ Pro, go to* www.moxa.com/product/Video-over-IP_Products.htm *for a complete product introduction, and to download the SoftDVR™ Pro/Lite IP Surveillance User's Manual.*

Typical Application



NOTE The Remote Access and I/O Device Management functions are available only with SoftDVR™ Pro.

Features

Administration Management and Video Server Control

- Supports MOXA VPort Series Video Servers
- Configure camera names, video quality, and video resolution separately
- Supports upgrading VPort's firmware remotely
- Up to 32 users may be added to one system
- User authorization level protection by password
- Supports PTZ camera controls
- Automatically resume viewing and recording after the system reboots
- Use your own e-map for point-and-click image viewing convenience

Viewing

- Remote Access from client web browser *(only supported by SoftDVR™ Pro)*.
- Supports 1, 4, 6, 8, 9, 10, 13, 16 camera viewing formats *(for SoftDVR™ Pro, a maximum of 16 cameras per list; for SoftDVR™ Lite, a maximum of 4 cameras per list)*.
- Synchronized video/audio viewing and recording for VPort MPEG4 video servers
- Zoom-in/Zoom-out function for individual cameras when playing back images.
- View and record by schedule or event trigger for each camera.
- Historic playbacks by time or event.
- Take snapshots in playback mode to get JPEG images for printing or saving as evidence.
- Adjust the contrast, brightness, sharpness, bluriness, and grayscale of the snapshot images.

Recording

- Start recording automatically with Round the Clock mode, VMD (Video Motion Detection), or digital inputs.
- Set the video recording format to adjustable FPS MJPEG or MPEG4 for VPort 2100 series *(supported by SoftDVR Pro; SoftDVR Lite only supports adjustable FPS MJPEG recording format)*.
- Images recorded in AVI format—compatible with popular media players.
- Adjustable recording frame rate over the LAN/Internet to match the real frame transmit speed, and to keep the video synchronized with the actual time
- Overridable HD space in FIFO (First-In-First-Out) sequence.
- Recorded video files can be stored on a local PC or a Windows-based networked storage server *(SoftDVR™ Lite does not support storing videos on a network hard disk)*.

NOTE Since VPort 2310 adopts the proprietary MPEG4 algorithm, users need to install SMPV codec to play back videos on some media players. SMPV codec is already installed if you installed SoftDVR Pro/Lite. You may also download the SMPV codec (SoftDVRCodec.exe) from MOXA's website, or copy it off of the SoftDVR Pro software CD.

Alarm

- Video Motion Detection (VMD) function for each camera.
- Selectable VMD area for each camera *(SoftDVR™ Lite only supports full image VMD)*.
- Alarms can be triggered by VMD, video failures, storage full, or DI. Alarm notices can be sent by email or DO, or the alarm can be configured to trigger the PTZ camera to a preset position *(SoftDVR™ Lite only supports VMD, Video Failure alarm)*.
- System status can be reviewed via the system log

System Requirements

SoftDVR™ Pro

- MS Windows 2000/XP
- Intel 2.4 GHz Pentium 4 recommended
- Minimum of 256 MB SDRAM (512 MB recommended)
- AGP (2X above) VGA card with at least 32 MB of display memory
- DirectX 8.1 or above

SoftDVR™ Lite

- MS Windows 2000/XP recommended
- Intel 1 GHz Pentium III or above
- Minimum of 128 MB SDRAM (256 MB recommended)
- AGP (2X above) VGA card with at least 32 MB of display memory
- DirectX 8.1 or above

NOTE The system requirements listed above are the minimum requirements needed to run SoftDVR smoothly. For better video performance, such as when viewing and recording video images, use a HW environment with more memory space and computing power.

NOTE Since a video surveillance system uses a lot of system resources, we strongly recommend that you use a dedicated server to run SoftDVR™ Lite/Pro for video surveillance purposes.

SoftDVR Pro Package Contents

- Software CD

- Quick Installation Guide

- Key Pro

2

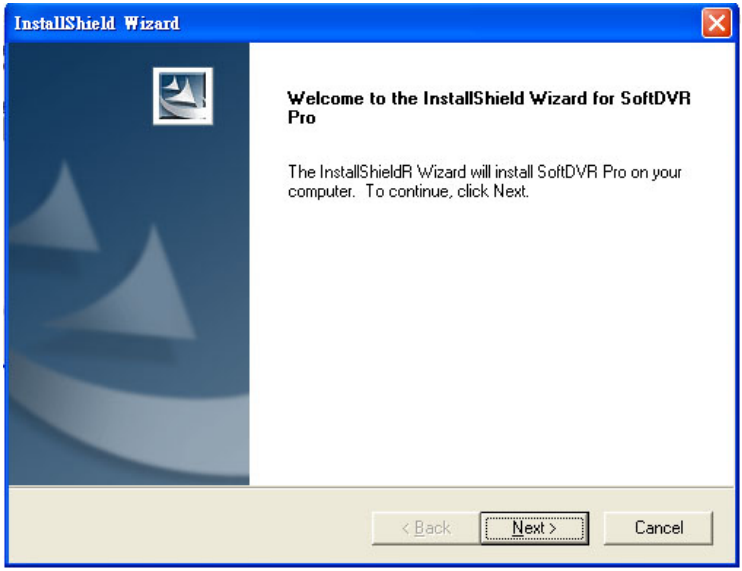
SoftDVR™ Pro Installation

Before Installing the Software

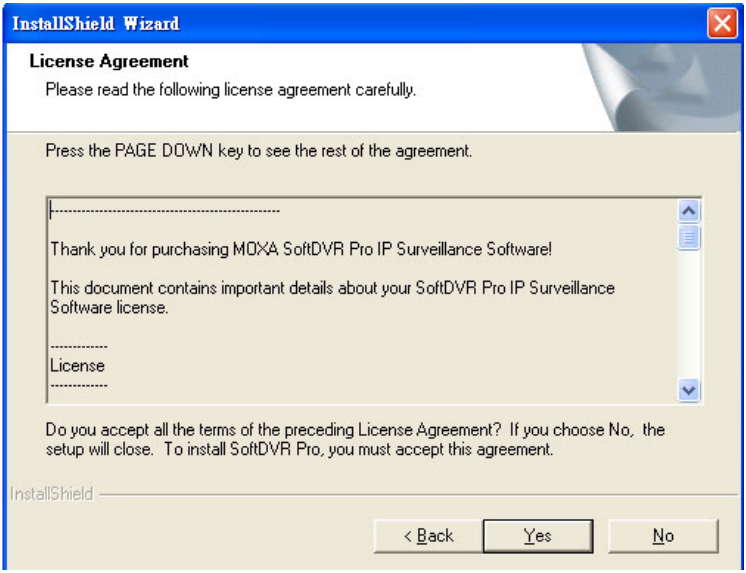
1. Make sure your PC has DirectX 8.1 or above installed.
2. Run the **SoftDVRPro.exe** installation program. The program can be found on the VPort Series Software CD, or can be downloaded from Moxa's website.

Starting the Installation

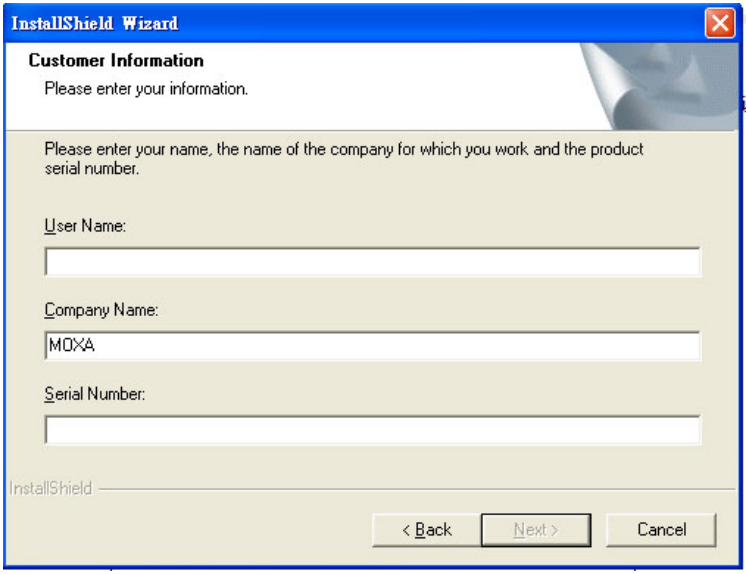
1. The **InstallShield Wizard** will start. Click on **Next** to continue.



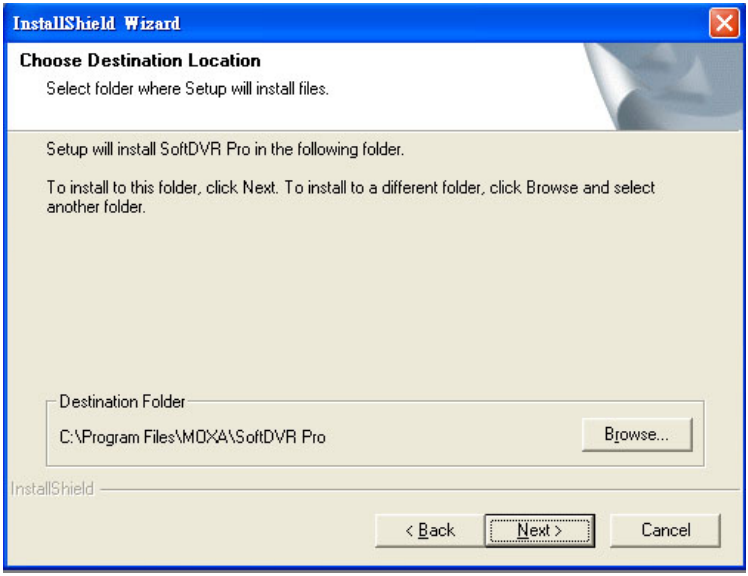
2. The **License Agreement** window will open next. Click on **Yes** to continue.



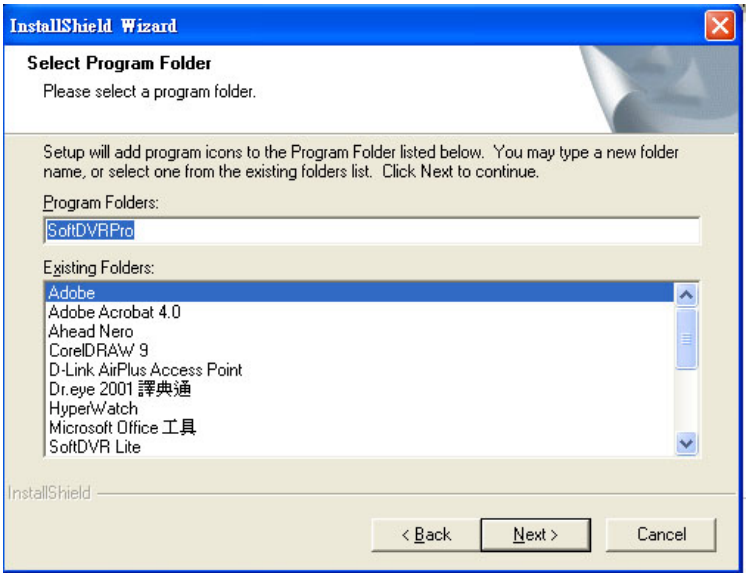
3. Type in the **User Name**, **Company Name** and the product **Serial Number** (printed on the Key Pro; a total of 11 digits), and then click on **Next**.



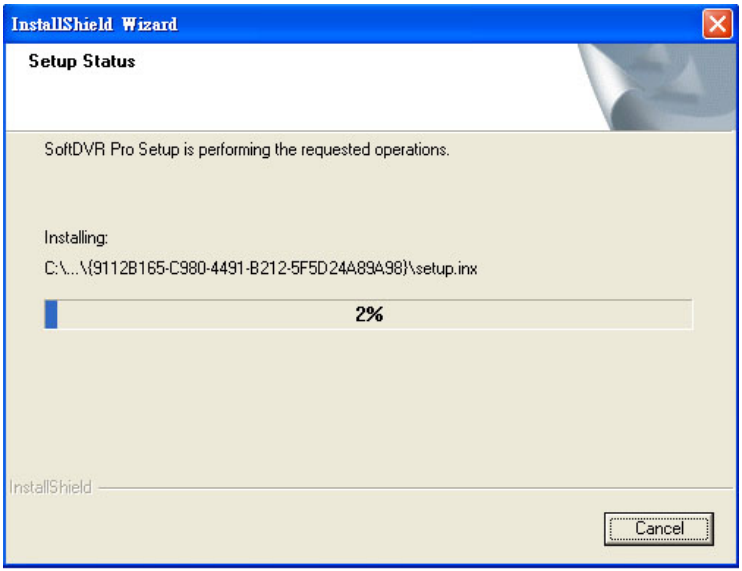
4. The **Choose Destination Location** window will open next. Select the desired folder and then click on **Next** to continue.



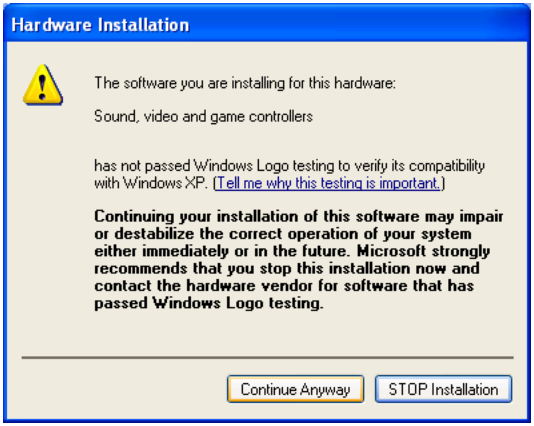
5. The **Select Program Folder** window opens next. By default, SoftDVR Lite's program icons will be placed in the **SoftDVRPro** program folder. You may accept or modify the name of the program folder. Click on **Next** to continue.



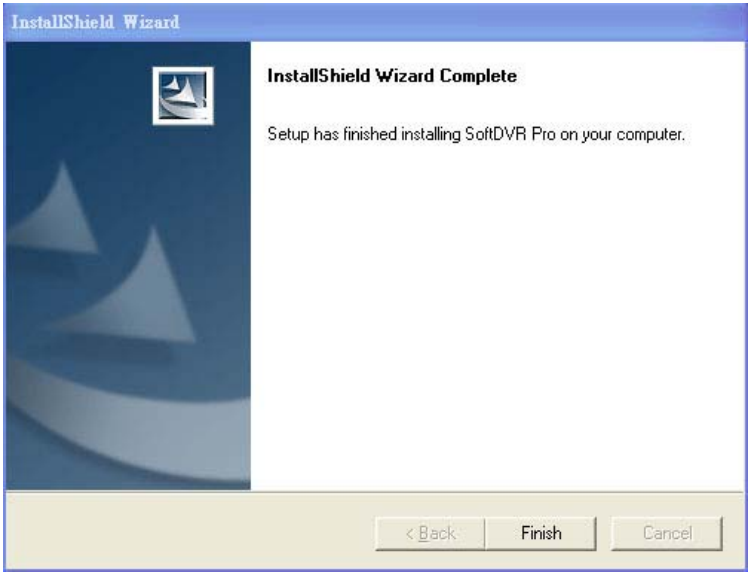
6. The wizard will start installing the software.



7. A digital signature request window will appear during the installation process. Click on **Continue Anyway** to proceed with the installation.



8. When the **InstallShield Wizard Complete** window opens, click on **Finish** to complete the installation.



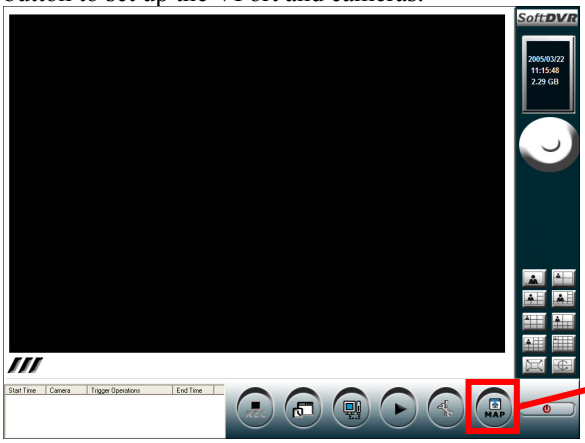
Accessing SoftDVR™ Pro for the First Time

Before using SoftDVR Pro, you need to plug the "Key Pro" into the printer port to enable the software operation. If necessary, the Key Pro can be inserted between your computer's printer port and the printer cable. The Key Pro is located in the SoftDVR Pro CD box. The driver for this Key Pro is installed automatically during the SoftDVR Pro installation process.

NOTE The Key Pro protects the SoftDVR Pro license. It will not influence the normal function of the printer port.

To launch SoftDVR Pro, click on **Start→Programs→SoftDVR Pro**. When the login window appears, type **admin** or **administrator** for **User Name**, leave the **Password** field blank, and then click on **OK**.

The main SoftDVR Pro window will open with the resolution set to 1024 × 768. A video image will not be shown. Click on the **Application Settings** button to set up the VPort and cameras.



Application Settings

Refer to SoftDVR Lite/Pro's User's Manual in the CD for more details about **Application Settings**.

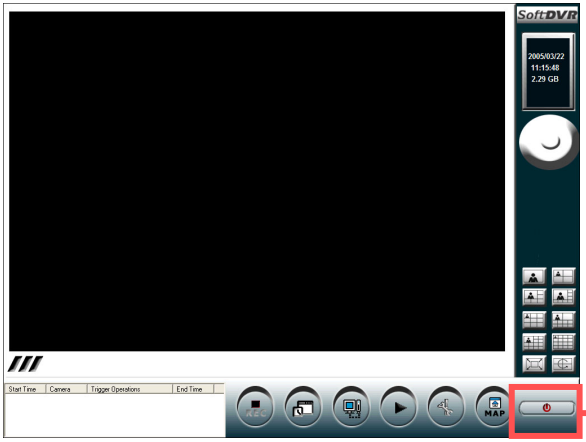
3

SoftDVR™ Pro General Operation

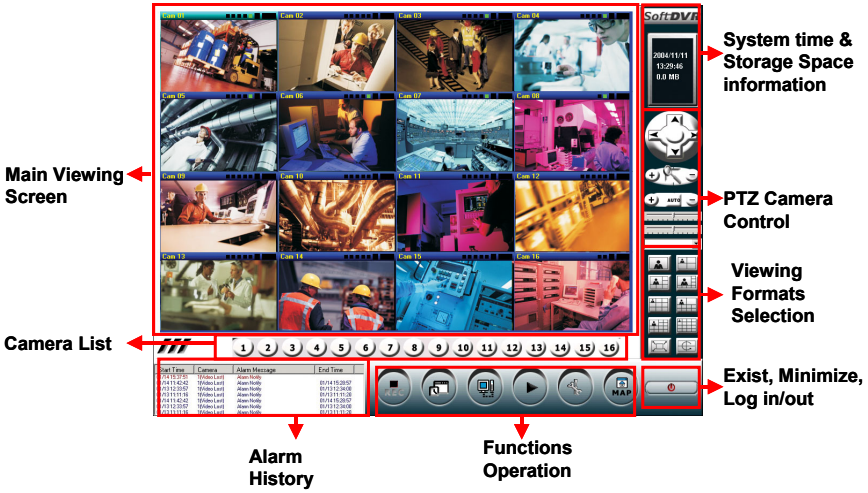
Authentication

When running SoftDVR Pro, use the **User Name** and **Password** assigned by the administrator. Administrators should type **admin** or **administrator** for the User Name, and then type the corresponding Password. Click on **OK** to continue.

Use the **Exit/Minimize** button located in the bottom right corner of the the main page to exit or access SoftDVR™ Pro.



Functions



Function Buttons

Recording

Scheduling

Remote Service

Playback

Application Settings

Camera Map

Viewing

SoftDVR™ Pro has 8 viewing formats: 1, 4, 6, 8, 9, 10, 13, or16 channels onscreen. You can easily change the viewing format by using **Viewing Formats Selection**. You can also select the camera you wish to view/control by clicking on one of the buttons in the **Camera List**. In addition, **Full Screen** and **Camera Scan** are provided for customized viewing.

Recording

To activate the recording function, click on the **Recording** button. Three types of recording, which can be activated separately for each camera, are available:

1. **Monitor only, do not record**: The recording function will be OFF at all times.
2. **Round-the-clock**: The recording function will be ON all the time.
3. **Motion detect**: Recording will only be activated when VMD is triggered.
4. **DI Input**: Recording will only be triggered by the DI.

In addition, users can adjust the recording FPS (frames per second) if the video image is MJPEG standard.

Use Low Compression (MJPEG) or High Compression (MPEG4), and adjust the maximum frames per second for recording video if the video server the camera is connected to is an MJPEG video server. Low compression requires large bandwidth and more storage, but fewer system resources are required. High Compression is the opposite.

Scheduling

To activate the scheduling function, click on the **Scheduling** button. This function has the following features:

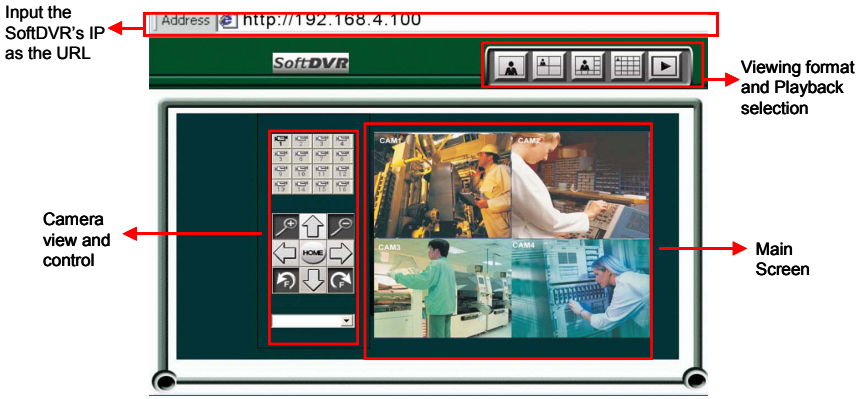
1. Set up a **Weekly Schedule** or **Dedicated Schedule**.
2. Action items include recording and remote service (the Lite version only includes recording).
3. Camera selectable
4. Details of scheduling tasks are described in the task remarks.
5. An editable scheduling task list is provided.
   Click **Add Job** to add this scheduled job to the list.

Administrators can set up the scheduling tasks in the **Application Setting/Scheduling** page.

NOTE A **Scheduling job** also includes recording and remote access. For this reason, the **Recording** and **Remote Service** buttons, located on the main page, will be disabled (indicated by a darker button) when the **Scheduing** function is active. This is to avoid conflicts caused by the scheduling task and the manual operation of recording and remote service.

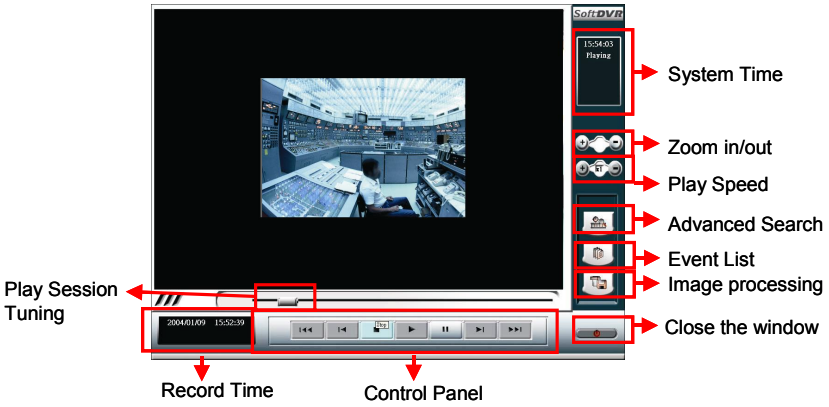
Remote Service

For MOXA SoftDVR Pro, **Remote Service** allows client users to access SoftDVR Pro from a remote site. Administrators can activate **Remote Service** to let users view real-time video images, and play back recorded files from any standard web browser by typing **http://IP Address of SoftDVR Pro's server** in the address input box.



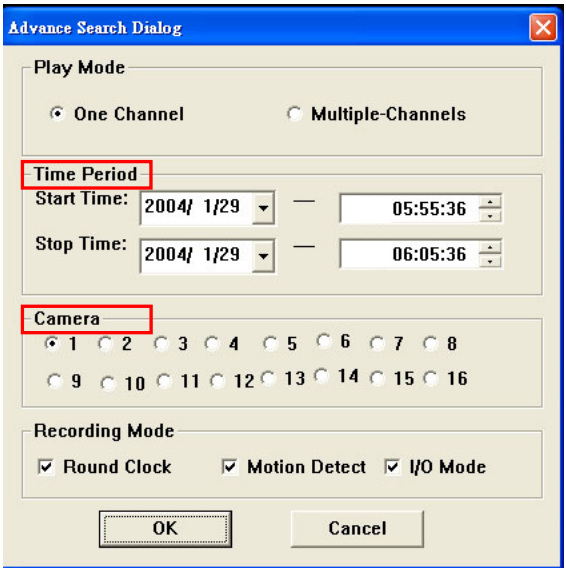
Playback

Administrators and authorized users can use the **Playback** function to view recorded files. After clicking on the **Playback** button, the **Security Playback** window will open to play back recorded files.

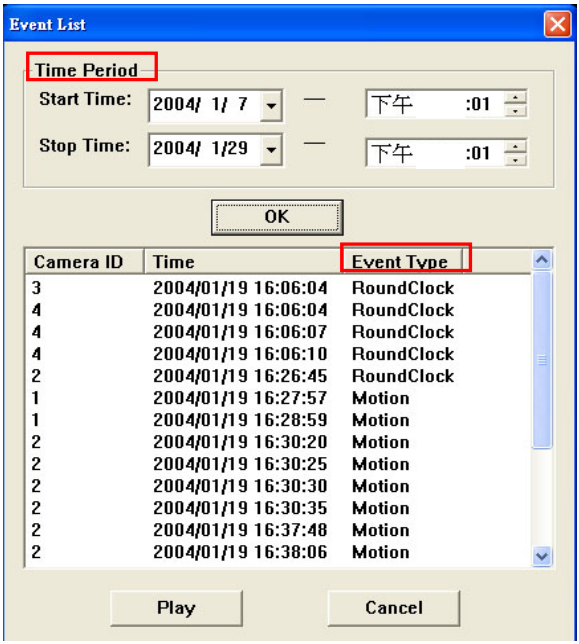


Searching for recorded files

SoftDVR has two search modes. **Advanced Search** uses Time and Camera as the search conditions**,** and **Event List** search uses time and event type as the search conditions.



← **Advanced Search**



← **Event List**

Playing a recorded file

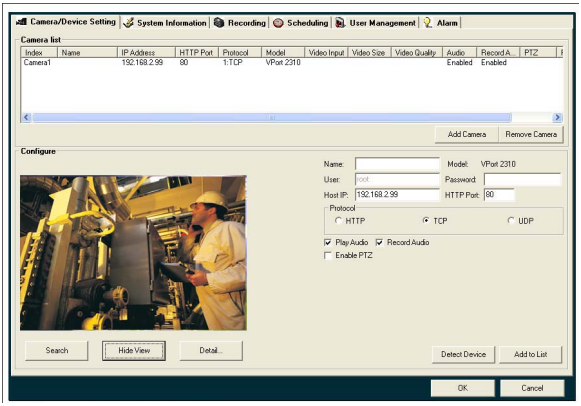
Double click on an item in the search results list to view the file onscreen.

Controling the video playback

Use the **Control Panel**, **Play Session Tuning, Zoom In/Out**, and **Play Speed** functions to control the video playback. In addition, **Image Processing** can be used to take a snapshot of the current image.

NOTE To use the **Play Speed** and **Zoom In/Out** functions, you need to set up these two functions before playing the recorded file. To use the **Control Panel**, **Play Session Tuning**, and **Image Processing** functions, simply pause the video before activating the function.

Application Settings



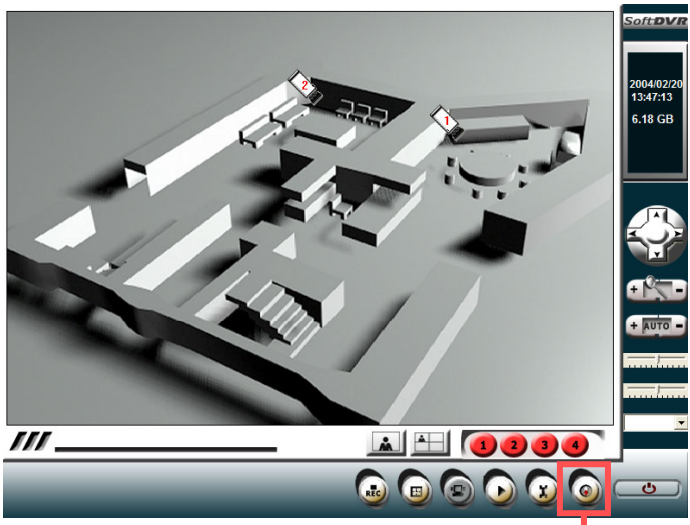
SoftDVR™ Pro has six major setting categories:

1. **Camera/Device Setting**: Administrators must configure MOXA VPort Series Video Servers and cameras to acquire video images before using the MOXA SoftDVR™ Lite functions. To add a camera, use the search function to find the VPort, or type the IP address and root password of the VPort manually to get the VPort's information.
2. **System Information**: Administrators can use this page to configure the SoftDVR™ Lite server's host name, start-up status, storage disk locations, safe space of each disk, camera caption, alarm transmitted email addresses, and auto login settings.
3. **Recording**: There are two major settings on the **Recording** page. One is the recording setting for each camera, which includes round-the-clock and video motion detection, and the other is VMD settings.
4. **Scheduling**: Administrators can use either weekly schedule or dedicated schedule, to schedule the recording times of each camera.
5. **User Management**: On this page, you can set up an administrator password and a user list. The user list can include up to 32 users. Camera operation and remote service can be configured independently for each user.
6. **Alarm**: Alarm conditions and actions—including VMD, Video Lost, Connect Lost, Sound, DI/ DO operations, and PTZ camera actions—can be configured on this page.

For more details about Application Settings, refer to the SoftDVR™ Pro/Lite IP Surveillance User's Manual.

Camera Map

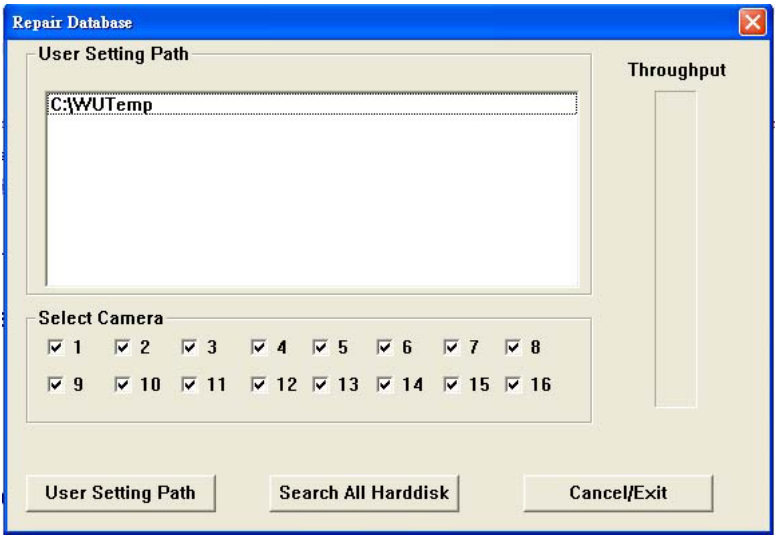
SoftDVR™ Pro provides a graphic E-map function for camera management. Administrators can import a layout image and place the cameras on the image for easy management of the number of cameras. Click on the **Camera Map** button to activate this function.



Repair Database

SoftDVR™ Pro provides a **Repair Database** function to re-organize the recorded file database. Repairing the file information can increase search and playback speed.

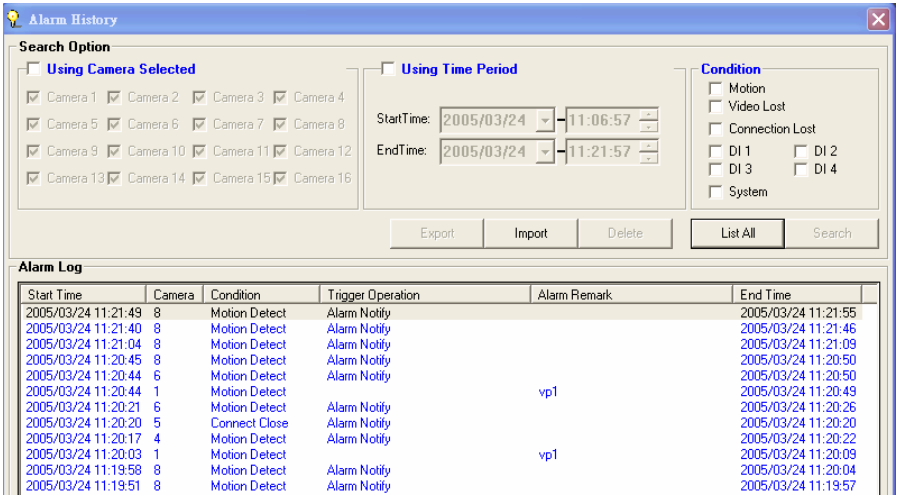
1. Select the camera and hard disk that needs to be repaired.
2. Click on **User Setting Path** to start the repair process.



NOTE If a storage path has not been set in the **Application Setting/General Setting** page, the path will not appear in the Repair Database windows.

Alarm History

The “Alarm History” function allows administrators to perform a quick search for an alarm record. The Search Options include **Using Camera Selected**, **Using Time Period**, and **Condition**.



NOTE Shut down SoftDVR Lite/Pro when you use the **Repair Database** and **Alarm List** function to avoid problems when reading the system’s database.

Uninstall

Use the **Uninstall** function in the SoftDVR Pro program list to remove SoftDVR Pro/Lite.

NOTE The un-install process only removes the main SoftDVR Pro/Lite files. The system settings and database will be kept in the folder **Program Files/MOXA/SoftDVR Pro or SoftDVR Lite**. To remove the software completely, delete this folder.

A

Service Information

This appendix shows you how to contact Moxa for information about this and other products, and how to report problems.

In this appendix, we cover the following topics.

- **MOXA Internet Services**
- **Problem Report Form**
- **Product Return Procedure**

MOXA Internet Services

Customer satisfaction is our number one concern, and to ensure that customers receive the full benefit of our products, Moxa Internet Services has been set up to provide technical support, driver updates, product information, and user's manual updates.

The following services are provided

E-mail for technical support ..... support@moxanet.com

Website for product information:..... www.moxa.com

Problem Report Form

MOXA SoftDVR™ Pro IP Surveillance Software

Customer name:	
Company:	
Tel:	**Fax:**
Email:	**Date:**

1. **Moxa Product:** ☐ SoftDVR™ Pro IP Surveillance Software
2. **Serial Number:** _____

Problem Description: Please describe the symptoms of the problem as clearly as possible, including any error messages you see. A clearly written description of the problem will allow us to reproduce the symptoms, and expedite the repair of your product.

Product Return Procedure

For product repair, exchange, or refund, the customer must:

- Provide evidence of original purchase.
- Obtain a Product Return Agreement (PRA) from the sales representative or dealer.
- Fill out the Problem Report Form (PRF). Include as much detail as possible for a shorter product repair time.
- Carefully pack the product in an anti-static package, and send it, pre-paid, to the dealer. The PRA should be visible on the outside of the package, and include a description of the problem, along with the return address and telephone number of a technical contact.